CLAIMS

1. A polyester resin composition containing a thermoplastic polyester resin and layered phyllosilicate,

wherein said layered phyllosilicate in said resin composition satisfies at least one of the following conditions (a) to (c):

(a) ratio of layered phyllosilicate having equivalent area circle diameter [D]of at most 3,000 Å is at least 20 %;

(b) a mean value of equivalent area circle diameter [D] is at most 5000 Å;

(c) the number of particles [N] per unit ratio of layered phyllosilicate present in 100 μm^2 of a resin composition is at least 30.

2. The polyester resin composition of Claim 1,

wherein the layered phyllosilicate in the resin composition satisfies at least one of the following conditions (d) to (f):

(d) average aspect ratio (ratio of layer length/layer thickness) is 10 to 300;

(e) the maximum layer thickness is at most 2,000 Å;

(f) average layer thickness is at most 500 Å.

3. The polyester resin composition of Claim 2, which satisfies all of said (d) to (f).

4. A polyester resin composition containing a thermoplastic polyester resin and layered phyllosilicate,

wherein at least one of the following conditions (g) to (i) is satisfied:

(g) difference (η_e–3η) between extensional viscosity η_e and a value three

times the shear viscosity η at 280°C under shear rate of 100 (1/s) is larger than 300 Pa·s;

(h) difference $\Delta\eta_e$ between η_e under shear rate of 100 (1/s) and η_e under shear rate of 1,000 (1/s) at 280°C is at least 500 Pa·s;

(i) product $J_{e0}\eta_0$ of equilibrium compliance J_{e0} by zero shear viscosity η_0 at 280°C is at least 0.8 second.

5. The polyester resin composition containing a thermoplastic polyester resin and layered phyllosilicate of Claim 1, 2 or 3,

wherein at least one of the following conditions (g) to (i) is satisfied:

(g) difference $(\eta_e-3\eta)$ between extensional viscosity η_e and a value three times the shear viscosity η at 280°C under shear rate of 100 (1/s) is larger than 300 Pa·s;

(h) difference $\Delta\eta_e$ between η_e under shear rate of 100 (1/s) and η_e under shear rate of 1,000 (1/s) at 280°C is at least 500 Pa·s;

(i) product $J_{e0}\eta_0$ of equilibrium compliance J_{e0} by zero shear viscosity η_0 at 280°C is at least 0.8 second.

6. The polyester resin composition of Claim 5, which satisfies all of said (g) to (i).

7. The polyester resin composition of Claim 1, 2 or 3, which contains a fibrous filler and/or a polycarbonate resin.

8. A process for producing a polyester resin composition containing a thermoplastic polyester resin and layered phyllosilicate

comprising:

(A) a step for preparing a dispersion of layered phyllosilicate and water containing layered phyllosilicate and water;

(B) a step for mixing a polymerizable pre-polymer of the thermoplastic polyester resin with said dispersion of layered phyllosilicate and water; and

(C) a step for polymerizing the thermoplastic polyester resin.